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Relevance scale ☐ ☐ ☐ ☐ ☐**1 Mediators over taxonomy-based information sources**

Yannis Tzitzikas, Nicolas Spyrtatos, Panos Constantopoulos

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 14 Issue 1

Full text available: [pdf\(428.09 KB\)](#) Additional Information: [full citation](#), [abstract](#)

We propose a mediator model for providing integrated and unified access to multiple taxonomy-based sources. Each source comprises a taxonomy and a database that indexes objects under the terms of the taxonomy. A mediator comprises a taxonomy and a set of relations between the mediator's and the sources' terms, called articulations. By combining different modes of query evaluation at the sources and the mediator and different types of query translation, a flexible, efficient scheme ...

Keywords: Approximate query translation, Information integration, Mediators, Taxonomies**2 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems**

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1Full text available: [pdf\(294.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profit ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity**3 An analysis of XML database solutions for the management of MPEG-7 media descriptions**

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Full text available:  [pdf\(448.76 KB\)](#)

[review](#)

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate current ...

Keywords: MPEG-7, XML database systems, multimedia databases

4 Context-aware Web Information Systems

Aleksander Binemann-Zdanowicz, Roland Kaschek, Klaus-Dieter Schewe, Bernhard Thalheim
January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31**

Full text available:  [pdf\(413.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Apart from completeness usability, performance and maintainability are the key quality aspects for Web information systems. Considering usability as key implies taking usage processes into account right from the beginning of systems development. Context-awareness appears as a promising idea for increasing usability of Web Information Systems. In the present paper we propose an approach to context-awareness of Web Information Systems that systematically distinguishes among the various important k ...

Keywords: SiteLang, Web Information Systems, Web services, context-aware information systems, media objects

5 Towards second and third generation web-based multimedia

Jacco van Osssenbruggen, Joost Geurts, Frank Cornelissen, Lynda Hardman, Lloyd Rutledge
April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  [pdf\(563.48 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SMIL, XML, XSLT, multimedia, transformations

6 Supporting active database learning and training through interactive multimedia

Claus Pahl, Ronan Barrett, Claire Kenny
June 2004 **ACM SIGCSE Bulletin , Proceedings of the 9th annual SIGCSE conference on Innovation and technology in computer science education**, Volume 36 Issue 3

Full text available:  [pdf\(130.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The learning objectives of a database course include aspects from conceptual and theoretical knowledge to practical development and implementation skills. We present an interactive educational multimedia system based on the virtual apprenticeship model for the knowledge- and skills-oriented Web-based education of database course students. Combining knowledge learning and skills training in an integrated environment is a central aspect of our system. We show that tool-mediated independent learning ...

Keywords: database courseware, knowledge and skills, multimedia, tool-mediated independent learning, virtual apprenticeship theory

7 Multimedia: Towards a multimedia formatting vocabulary

Jacco van Ossenburg, Lynda Hardma, Joost Geurts, Lloyd Rutledge

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available:  pdf(189.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Time-based, media-centric Web presentations can be described declaratively in the XML world through the development of languages such as SMIL. It is difficult, however, to fully integrate them in a complete document transformation processing chain. In order to achieve the desired processing of data-driven, time-based, media-centric presentations, the text-flow based formatting vocabularies used by style languages such as XSL, CSS and DSSSL need to be extended. The paper presents a selection of u ...

Keywords: Cuypers, document transformation, formatting objects, hyper-media, multimedia

8 Learning I: Researchexplorer: gaining insights through exploration in multimedia scientific data

Bo Gong, Rahul Singh, Ramesh Jain

October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available:  pdf(927.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasing amount of heterogeneous information about scientific research is becoming available on-line. This potentially allows users to explore the information from multiple perspectives and derive insights and not just raw data about a topic of interest. However, most current scientific information search systems lag behind this trend; being text-based, they are fundamentally incapable of dealing with multimedia data. An even more important limitation is that their information environmen ...

Keywords: event, exploration, interaction environment, isight, multimedia data, research event, spatio-temporal data

9 Mining multimedia data

Osmar R. Zaiane, Jiawei Han, Ze-Nian Li, Jean Hou

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(377.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data Mining is a young but flourishing field. Many algorithms and applications exist to mine different types of data and extract different types of knowledge. Mining multimedia data is, however, at an experimental stage. We have implemented a prototype for mining high-level multimedia information and knowledge from large multimedia databases. MultiMedia Miner has been designed based on our years of experience in the research and development of a relational data mining system, DBMiner, in the Inte ...

Keywords: data cube, data mining, data warehousing, image analysis, information retrieval, multimedia, world-wide web

10 The internet as an engine of scholarship

Joseph S. Fulda

March 2000 **ACM SIGCAS Computers and Society**, Volume 30 Issue 1

Full text available:  pdf(1.21 MB) Additional Information: [full citation](#)

11 sTeam: structuring information in team-distributed knowledge management in cooperative learning environments

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(179.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Learning is a socially embedded design process. But most of today's hypermedia systems fail to properly support the design-related and the social aspects of learning. Authoring and Web-publishing systems aim to support the authors design processes. Consequently, the activities of learners are confined to selecting and reading. Based on some fundamental reflections on the role of technology in learning processes, we conclude that top priority must be given to the construction of infrastructure ...

Keywords: cooperative learning, cooperative support, learner-centered approaches, sTeam (structuring information in a team), web-based learning and teaching

12 Reusability and adaptability of interactive resources in Web-based educational systems

Abdulmotaleb El Saddik, Stephan Fischer, Ralf Steinmetz

March 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(257.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The production of interactive multimedia content is in most cases an expensive task in terms of time and cost. Hence, optimizing production by exploiting the reusability of interactive multimedia elements is mandatory. Reusability can be triggered by a combination of reusable multimedia components and the appropriate use of metadata to control the components as well as their combination. In this article, we discuss the reusability aspects of interactive multimedia content in web ...

13 Building a successful e-business: the FedEx story

Ali F. Farhoomand, Pauline S. P. Ng, William L. Conley

April 2003 **Communications of the ACM**, Volume 46 Issue 4

Full text available:  pdf(325.80 KB)  html(22.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The company famous for transporting goods from anywhere to anywhere around the globe has used its impressive information infrastructure to expand into a channel logistics business.

14 Web engineering: A visual environment for dynamic web application composition

Kimihito Ito, Yuzuru Tanaka

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available:  pdf(1.56 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

HTML-based interface technologies enable end-users to easily use various remote Web applications. However, it is difficult for end-users to compose new integrated tools of both existing Web applications and legacy local applications such as spreadsheets, chart tools and database. In this paper, the authors propose a new framework where end-users can wrap remote Web applications into visual components called *pads*, and functionally combine them together through drag & drop-paste operations. ...

Keywords: hypermedia, intelligentPad, personalization, web application linkage, web application wrapping

15 Effective access to large audiovisual assets based on user preferences

S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

Keywords: multimedia databases, query expansion, text-based search, user profiling, web access

16 Database techniques for the World-Wide Web: a survey

Daniela Florescu, Alon Levy, Alberto Mendelzon

September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3

Full text available:  pdf(1.79 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

17 Surveys: Structured databases on the web: observations and implications

Kevin Chen-Chuan Chang, Bin He, Chengkai Li, Mitesh Patel, Zhen Zhang

September 2004 **ACM SIGMOD Record**, Volume 33 Issue 3


Full text available:  pdf(393.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Web has been rapidly "deepened" by the prevalence of databases online. With the potentially unlimited information hidden behind their query interfaces, this "deep Web" of searchable databases is clearly an important frontier for data access. This paper surveys this relatively unexplored frontier, measuring characteristics pertinent to both exploring and integrating structured Web sources. On one hand, our "macro" study surveys the deep Web at large, in April 2004, adopting the random IP-sa ...

18 Hypermedia semantics: Finding the story: broader applicability of semantics and discourse for hypermedia generation

Lloyd Rutledge, Martin Alberink, Rogier Brussee, Stanislav Pokraev, William van Dielen, Mettina Veenstra

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available:  pdf(396.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Generating hypermedia presentations requires processing constituent material into coherent, unified presentations. One large challenge is creating a generic process for producing hypermedia presentations from the semantics of potentially unfamiliar domains. The resulting presentations must both respect the underlying semantics and appear as coherent, plausible and, if possible, pleasant to the user. Among the related unsolved problems is the inclusion of discourse knowledge in the generation pro ...

Keywords: RDF, SMIL, clustering, concept lattices, discourse, hypermedia, narrative,

semantics

19 EIU's ViewsWire: new wine in a new bottle

Peter Lovelock, Ali F. Farhoomand

December 2000 **Proceedings of the twenty first international conference on Information systems**Full text available:  [pdf\(516.64 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**20** Contextualizing the information space in federated digital libraries

M. P. Papazoglou, J. Hoppenbrouwers

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1Full text available:  [pdf\(695.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Rapid growth in the volume of documents, their diversity, and terminological variations render federated digital libraries increasingly difficult to manage. Suitable abstraction mechanisms are required to construct meaningful and scalable document clusters, forming a cross-digital library information space for browsing and semantic searching. This paper addresses the above issues, proposes a distributed semantic framework that achieves a logical partitioning of the information space accordi ...

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 US OCR Full-Text Database
 EPO Abstracts Database
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 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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<u>L9</u>	(L6 or L7 or L8) and (L5 or L4)	42	<u>L9</u>
<u>L8</u>	709/203.ccls.	5359	<u>L8</u>
<u>L7</u>	715/513 517.ccls.	1246	<u>L7</u>
<u>L6</u>	715/501.1.ccls.	1027	<u>L6</u>
<u>L5</u>	(L4 or L2 or L1) and (profil\$3 and header\$1)	186	<u>L5</u>
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<u>L3</u>	(L1 or L2) and database\$1	945	<u>L3</u>
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L9: Entry 1 of 42

File: PGPB

Apr 14, 2005

PGPUB-DOCUMENT-NUMBER: 20050081144

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050081144 A1

TITLE: Document creation system and method using knowledge base, precedence, and integrated rules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 2. Document ID: US 20040177148 A1

L9: Entry 2 of 42

File: PGPB

Sep 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040177148

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040177148 A1

TITLE: Method and apparatus for selecting and viewing portions of web pages

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 3. Document ID: US 20040148571 A1

L9: Entry 3 of 42

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040148571

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040148571 A1

TITLE: Method and apparatus for adapting web contents to different display area

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 4. Document ID: US 20040049737 A1

L9: Entry 4 of 42

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040049737

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040049737 A1

TITLE: System and method for displaying information content with selective horizontal scrolling

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20040049589 A1

L9: Entry 5 of 42

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040049589
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040049589 A1

TITLE: Arrangement and a method relating to session management in a portal structure

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20030177202 A1

L9: Entry 6 of 42

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030177202
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030177202 A1

TITLE: Method and apparatus for executing an instruction in a web page

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 20030078960 A1

L9: Entry 7 of 42

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030078960
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030078960 A1

TITLE: Architecture and process for creating software applications for multiple domains

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 20030014500 A1

L9: Entry 8 of 42

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030014500
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030014500 A1

TITLE: Transactional data communications for process control systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 20030014483 A1

L9: Entry 9 of 42

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030014483
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030014483 A1

TITLE: Dynamic networked content distribution

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 20020169885 A1

L9: Entry 10 of 42

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020169885
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020169885 A1

TITLE: Digital television application protocol for interactive television

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 20020169851 A1

L9: Entry 11 of 42

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020169851
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020169851 A1

TITLE: Internet-based system for dynamically creating and delivering customized content within remote web pages

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 20020129094 A1

L9: Entry 12 of 42

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020129094

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020129094 A1

TITLE: Software and method for automatically sending a data object that includes user demographics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20020038349 A1

L9: Entry 13 of 42

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020038349
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020038349 A1

TITLE: Method and system for reusing internet-based applications

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 20010037361 A1

L9: Entry 14 of 42

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037361
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010037361 A1

TITLE: Methods and systems for transactional tunneling

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 20010037359 A1

L9: Entry 15 of 42

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037359
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010037359 A1

TITLE: System and method for a server-side browser including markup language graphical user interface, dynamic markup language rewriter engine and profile engine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 6859910 B2

L9: Entry 16 of 42

File: USPT

Feb 22, 2005

US-PAT-NO: 6859910

DOCUMENT-IDENTIFIER: US 6859910 B2

TITLE: Methods and systems for transactional tunneling

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 17. Document ID: US 6834306 B1

L9: Entry 17 of 42

File: USPT

Dec 21, 2004

US-PAT-NO: 6834306

DOCUMENT-IDENTIFIER: US 6834306 B1

TITLE: Method and apparatus for notifying a user of changes to certain parts of web pages

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 18. Document ID: US 6792575 B1

L9: Entry 18 of 42

File: USPT

Sep 14, 2004

US-PAT-NO: 6792575

DOCUMENT-IDENTIFIER: US 6792575 B1

TITLE: Automated processing and delivery of media to web servers

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 19. Document ID: US 6779178 B1

L9: Entry 19 of 42

File: USPT

Aug 17, 2004

US-PAT-NO: 6779178

DOCUMENT-IDENTIFIER: US 6779178 B1

TITLE: System and method for personalizing electronic mail messages

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 20. Document ID: US 6772216 B1

L9: Entry 20 of 42

File: USPT

Aug 3, 2004

US-PAT-NO: 6772216

DOCUMENT-IDENTIFIER: US 6772216 B1

**** See image for Certificate of Correction ****

TITLE: Interaction protocol for managing cross company processes among network-

distributed applications

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUAC	Draw D
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☐ 21. Document ID: US 6769009 B1

L9: Entry 21 of 42

File: USPT

Jul 27, 2004

US-PAT-NO: 6769009

DOCUMENT-IDENTIFIER: US 6769009 B1

TITLE: Method and system for selecting a personalized set of information channels

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUAC	Draw D
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☐ 22. Document ID: US 6763388 B1

L9: Entry 22 of 42

File: USPT

Jul 13, 2004

US-PAT-NO: 6763388

DOCUMENT-IDENTIFIER: US 6763388 B1

TITLE: Method and apparatus for selecting and viewing portions of web pages

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUAC	Draw D
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☐ 23. Document ID: US 6763343 B1

L9: Entry 23 of 42

File: USPT

Jul 13, 2004

US-PAT-NO: 6763343

DOCUMENT-IDENTIFIER: US 6763343 B1

TITLE: Preventing duplication of the data in reference resource for XML page generation

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUAC	Draw D
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☐ 24. Document ID: US 6757898 B1

L9: Entry 24 of 42

File: USPT

Jun 29, 2004

US-PAT-NO: 6757898

DOCUMENT-IDENTIFIER: US 6757898 B1

TITLE: Electronic provider--patient interface system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUAC	Draw D
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